

ABSTRACT OF THE DISCLOSURE

A process of manufacturing a hollow glass product with an offset collar axis, including the steps of inserting molten material into a cavity of a roughing mold, allowing the molten material to penetrate into a bottom portion of the roughing mold, perforating a collar by moving a punch into the bottom portion of the roughing mold along a non-vertical axis, extracting the punch from the bottom portion of the roughing mold, thereby completing processes of shaping the molten material into a blank, transferring the blank into a finishing mold by turning over the blank 180° with respect to a horizontal axis, and blowing the blank through the collar in the finishing mold such that the blank shapes into a hollow glass product. The cavity includes at least one input section which is substantially vertical.

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